

ENIKÖ KÁLLAY

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EDUCATION:

1977	Baccalaureate
1981	MSc. in biology at the University of Bucharest
1994	Nostrification at the University of Vienna
1999	PhD. in biochemistry at the University of Vienna: "Calcium - a potent modulator of proliferation and differentiation of human colonocytes the calcium-sensing receptor: expression, regulation and relevance for colorectal tumour progression."
2004	Habilitation for Experimental Pathology at the Medical University of Vienna.
Apr. 2007-March. 2008	Marie Curie Inter European Fellowship (EU): University of Oxford.

PROFESSIONAL CAREER:

1981 - 1990	Research Station for Animal Breeding; Tirgu Mures / Romania
since 1992	Department Pathophysiology, Medical University of Vienna
2012	Tenured position as Associated Professor at the Dept. Pathophysiology and Allergy Research, Medical University of Vienna.
2008-2009	Mentor in the "Frauen.netz.werk Medizin" Program of the Medical University of Vienna.

COLLABORATIONS:

1996:	Guest researcher in the laboratory of Prof. Edward M. Brown, Endocrinology and Hypertension Division, Brigham & Women Hospital, Harvard Medical School, Boston MA, USA.
1998:	Guest researcher in the laboratory of Prof. Raj V. Thakker, Molecular Endocrinology Division, Imperial School of Medicine, London, UK.
2000 / 2001:	Guest researcher in the laboratory of Dr. Sandra Guggino, GI Division, Johns Hopkins University, MD.
2003 / 2004:	Guest researcher in the laboratory of Dr. Martin Lipkin, Strang Cancer Prevention Center, Cornell University, NY.
2001-2003:	Academic Research Collaboration Programme of The British Council together with Dr. Rosemary Bland, Biomedical Research Institute, Department of Biological Sciences Warwick University, UK.
2004-2007	Wissenschaftlich-technische Zusammenarbeit (Österreich - Ungarn 2005 – 2007) mit der Semmelweis Universität Budapest, Fakultät für Medizin,

MAIN SCIENTIFIC INTERESTS.

- To understand and unveil biochemical and molecular mechanisms of the anti-tumourigenic effects of vitamin D and dietary calcium for colon cancer prevention. To identify premalignant and early malignant markers of colorectal tumours.
- To study site- and gender-specificities of human colorectal cancer.
- To investigate genetic and epigenetic effects of vitamin D as physiological defence against colon, prostate, mammary tumour progression.
- To find means to induce the vitamin D system by nutritional factors, such as phytoestrogens and calcium.
- To examine calcium-dependent anti-tumourigenic molecular mechanisms and the role of the calcium sensing receptor (CaSR) in colon carcinogenesis.

FINANCIAL SUPPORT:

Principal Investigator:

European Community: Horizon2020 MSCA ETN 675228 “Calcium-Sensing Receptor (CaSR): Therapeutics for Non-Communicable Diseases “CaSR Biomedicine” (2016-2020).

Austrian Science Fund: I 1662-B13 “Ca²⁺ signalling in BRAF mutant tumours: therapeutic resistance and drug combinations.” 2014-2017.

WWTF (Vienna Science and Technology Fund): “Dietary vitamin D, a powerful weapon in the war against colorectal cancer.” 2013-2016

European Community: FP7-264663 “The role of the Calcium Sensing Receptor (CaSR) in health and disease, implications for translational medicine.” (2011-2014).

European Community: MEIF-CT-2007-041276: Marie Curie Inter European Fellowship (EU): University of Oxford, Oxford Centre for Diabetes, Endocrinology, and Metabolism, Academic Endocrine Unit (2007-2008).

Herzfelder’sche Familienstiftung: “Is the calcium sensing receptor a tumour suppressor in colorectal cancer?” 2010-2012.

Austrian Science Fund, P22200: “Is the vitamin D catabolising enzyme CYP24A1 an oncogene?” 2009-2013.

Austrian National Bank, Project # 9335: “Oral calcium and colorectal cancer prevention: mechanisms of action in an animal model.” 2002 - 2004.

Collaborator:

Herzfelder’sche Familienstiftung: “Modulating the Wnt-pathway in premalignant colorectal adenoma cells” 2012-2014

Herzfelder’sche Familienstiftung: “The involvement of environmental factors in the pathogenesis of head and neck and colorectal carcinoma: can dietary factors change oncogene expression during tumorigenesis?” 1995-1997.

Austrian National Bank, Project # 6152: Transduction of calcium sensing into proliferation and adhesion of human colonocytes: implications for cancerogenesis. 1996-1998.

Austrian National Bank, Project # 9850: Mechanisms of phytoestrogen action in colon cancer prevention. 2003-2005.

American Institute for Cancer Research, Project # 03B031-REV: Soybean consumption and colon cancer prevention-studies in a mouse model and in human colon cells. 2004-2006.

European Community: MRTN-CT-2005-019496: Research Training Network NUCSYS: Systems Biology of Nuclear Receptors: A Nutrigenomic Approach to Aging-Related Diseases (Start 1.1.2006).

AÖU: Stiftung Aktion Österreich-Ungarn: #73öu3 together with the Semmelweis University Budapest, Medical Faculty, Dept. Internal Medicine I. (2008 – 2009).

MEMBERSHIPS:

Austrian Society for Bone and Mineral Research; International Bone and Mineral Society;
Austrian Society for Endocrinology and Metabolism; Austrian Biochemical Society;
European Calcium Society; European Calcified Tissue Society.
American Association for Cancer Research (Women in Cancer Research);

European Association for Cancer Research

AWARDS:

Bristol-Myers Squibb Oncology Travel Award; at the Annual Meeting of the AACR, Washington D.C. 1996.

Poster award of the ASBMR. at the Int. Conference: Progress in Bone and Mineral Research, Vienna, 1998.

Int. Society for Preventive Oncology Travel Grant Award at the Int. Symposium on Predictive and Preventive Oncology, Nice, 1998.

AD HOC REVIEWER FOR:

Cancer Research, Clinical Cancer Research, Cancer Letters, FEBS Letters, Experimental Gerontology, Journal of Pharmacy and Pharmacology, Journal of the Pancreas, Journal of Endocrinology, Endo, Endocrine Connections, European Journal of Pharmacology, Molecular Cancer Therapeutics, Journal of Steroid Biochemistry and Molecular Biology, Molecular Nutrition & Food Research, Oncotarget, PLoS One, Molecular and Cellular Endocrinology, Frontiers in Physiology, BMC Cancer, Cancer Medicine, Clinical Colorectal Cancer, Biochim Biophys Acta Molecular Research, Brit. J. Cancer.

World Cancer Research Fund, The Research Foundation – Flanders, Anniversary Fund of the Austrian National Bank. Belgian Foundation Against Cancer, Cancer Research UK, European Commission (FP7-PEOPLE, Horizon2020).